Trajche Krstev

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ABOUT ME

Ambitious, self-motivated and hard-working Computer and Information Science student finishing my final year of my bachelor's degree, passionate about Artificial Intelligence, Machine Learning, Game Development and more. Eager to learn and adopt new technologies.

EDUCATION

Bachelor of Computer and Information Science, October 2020 - Current
University of Ljubljana - Faculty of Computer and Information Science, Ljubljana

TECHNOLOGY SKILLS

Programming Languages: Python (TensorFlow, Keras, scikit-learn, NLTK, Pandas, NumPy, Matplotlib), Java, C, JavaScript, TypeScript, Kotlin
Web Development: HTML5, CSS3, Angular, Node.js, Express.js, MongoDB, Hugo
Software Engineering: Machine Learning, Computer Vision, ROS2, Unity, Android Studio
Software: Version Control (Git, GitHub), LaTeX

SOFT SKILLS

Time management, Teamwork, Adaptability, Problem-solving, Communication, Organisation, Creativity, Attention to detail, Desire to learn, Patience

LANGUAGES

Macedonian: Native, *English:* Fluent, *Slovenian:* Fluent, *Serbian:* Fluent, *German:* Beginner, *French:* Beginner

PROJECTS

News Article Comment Prediction 2024
https://trajchekrstev.github.io/trajchekrstev-portfolio/projects/androidrecipeapp/

- Developed a predictive model for estimating the number of comments on news articles using text processing and machine learning as part of the Intro to Data Mining course.
- Utilized Python libraries like scikit-learn, pandas, and nltk for feature extraction and model training.
- Applied Ridge regression with TF-IDF vectorized text and normalized numerical features.
- Conducted thorough data preprocessing, including text cleaning, feature engineering, and one-hot encoding of categorical data.

Android Recipe App 2024
https://trajchekrstev.github.io/trajchekrstev-portfolio/projects/androidrecipeapp/

- Developed an Android app for managing cooking recipes as part of the Platform Based Development course.
- Provided offline access to favorite recipes by storing them in a local Room database, ensuring data persistence without internet connectivity.

- Utilized Android components such as ViewPager2, FragmentStateAdapter, RecyclerView, and ViewModel for seamless navigation and data management.

Tutoro: Connecting Students and Tutors 2023
https://trajchekrstev.github.io/trajchekrstev-portfolio/projects/tutoro/

- Developed a dynamic web application using the MEAN stack (MongoDB, Express, Angular, Node.js) as part of a group project for the Web Programming course.
- Implemented RESTful API with standard HTTP methods and resource-based URL structures for user authentication, profile management, course management, and reviews.
- Designed and built the frontend using Angular and TypeScript to provide a responsive and interactive user interface.
- Utilized MongoDB for flexible and scalable data storage, managing user profiles, courses, and reviews efficiently.

Genetic Programming for Symbolic Regression 2023
https://trajchekrstev.github.io/trajchekrstev-portfolio/projects/geneticprogramming/

- Implemented a genetic algorithm to predict mathematical equations from given y-values by evolving potential solutions over multiple generations as part of a pair project for the Intelligent Systems course.
- Encoded expression trees using prefix notation and binary masks to differentiate between operators and operands for seamless integration with the PyGAD library.
- Developed functions for initial population creation, fitness evaluation, and expression evaluation, ensuring efficient and accurate assessment of solutions.
- Optimized genetic operations by selecting valid subtrees for crossover and mutation, enhancing the robustness and accuracy of evolved solutions.